

bennett *live*

FOR PARENTS & EDUCATORS

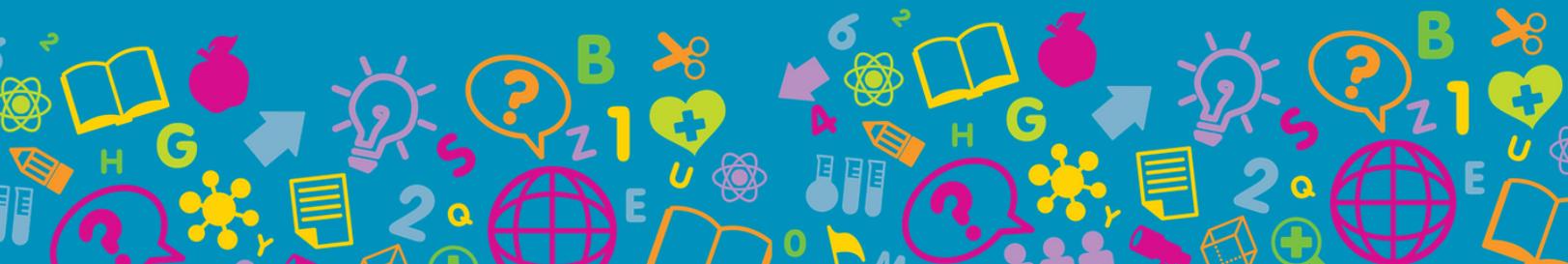
Exploring

WITH MR. REYNOLDS

Learning Guide - Week 3

CREATED BY:

 bennett labs





Bennett Live offers engaging media programming with a mission to inspire young designers, creators, and makers through project-based learning.

- Live and pre-recorded programming for ages 3-12
- Monday-Friday at 11 am and 2 pm (CST) on [Bennett Day School's Facebook page](#)
- Episodes are archived on [Bennett Day School's YouTube Channel](#)
- Inspired by the principles of Reggio Emilia and Project-Based Learning (PBL)

Designed to advance a child's creativity and their development as lifelong learners and leaders, Bennett Live is a Bennett Labs creation for children and families everywhere.

- To learn more visit: bennettday.org/bennettlive
- To connect, share and follow: [#bennettlive](#)



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Exploring

WITH MR. REYNOLDS

WEEKLY SCHEDULE | WEEK 3

Flexing our Brains with Design Challenges!

This week we will be exploring and creating with design challenges! A design challenge inspires creativity and innovation by forcing us to flex our brains to find solutions to real-world problems.

MON

Marble Maze! We will explore the basics of a design challenge, experiment with gravitational force and motion, and build a table top or wall-hanging marble run.

TUES

Paper Towers! We will experiment with design constraints, measure objects to whole, half, and quarter inches, explore structure and foundation while making a paper tower from one piece of paper.

WED

Spaghetti Strength! We will explore engineering concepts of load and distribution, create a bridge-like structure to support the weight of various objects, and experiment with failure as part of the design process.

THURS

Imitation Landmark! We will utilize an artistic approach to a design challenge, exploring the concept of reverse engineering and repurpose recyclable and found materials to build an inspired creation.

FRI

Surprise Challenge! We will apply design, thinking, and engineering skills to approach an unknown challenge and use our critical thinking and creative problem-solving skills.

BOOKS

- What Do You Do With An Idea? By Kobi Yamada
- Iggy Peck Architect by Andrea Beaty
- What Do You Do With A Chance? By Kobi Yamada





Exploring

WITH MR. REYNOLDS

Week 3

Flexing our Brains with Design Challenges!

EXPLORING

Exploring with Mr. Reynolds is a creative problem-solving program for Grades 2-6 (Ages 7-12) where students can explore their ideas and investigate the world around them. Each day, Mr. Reynolds inspires curiosity and home-based exploration. Students will be invited to learn about ideas, explore problems and materials, and apply their knowledge. Join Mr. Reynolds on a daily journey of discovery, making, and creative problem-solving.

MR. REYNOLDS

Mr. Reynolds is an experienced educational leader and an award-winning classroom teacher with over 15 years of experience in making, creating, and project-based learning with children in the elementary grades. He completed his Bachelor's in Elementary Education at Valparaiso University and at Loyola University, his Masters in Educational Leadership and Policy Studies. A founding member of the Bennett Day School educational team and TinkerLab curator, Mr. Reynolds, adopts an integrated approach to teaching and learning, incorporating technology into student research, presentation, communication and assessment for enhanced outcomes.

WORKSPACE & A BOX OF STUFF

- A workspace like a desk, kitchen table, or floor area.
- Pens, pencils, and coloring instruments.
- Scissors - the stronger the better!
- Adhesive tape and glue, a hot glue gun and duct tape.
- Craft paper, printer, and colored construction paper
- Cutting Station- A large piece of scrap wood and a box cutter or a pocket knife.
- Box of Stuff- A box filled with stuff from around the house such as small containers of various sizes and shapes, trinkets, found objects, bottle caps, straws, string, paperclips, push pins, little figures, key chains, small things for use in making.

MONDAY

Marble Maze! We will explore the basics of a design challenge, experiment with gravitational force and motion and build a table top or wall-hanging marble run.

Equipment and Supplies

- Cardboard
- Hot glue and tape
- Marble
- Thick paper like card stock or construction paper

Tips and Advice

Marble runs and games like labyrinth are creations that utilize gravity as a force to manipulate. The goal of today's episode is to create some kind of contraption or space for a marble to play.





TUESDAY

Paper Towers! We will experiment with design constraints, measure objects to whole, half, and quarter inches, explore structure and foundation while making a paper tower from one piece of paper.

Equipment and Supplies

- One sheet of paper (8.5 x 11in)
- 5 inches of tape
- Scissors

Tips and Advice

By using a limited amount of resources and materials, designers are encouraged to think critically about the design of their structure.

WEDNESDAY

Spaghetti Strength! We will explore engineering concepts of load and distribution, create a bridge-like structure to support the weight of various objects, and experiment with failure as part of the design process.

Equipment and Supplies

- One box of spaghetti noodles
- Rubber bands or tape
- Small objects of assorted weight such as books, bag of sugar, coffee mugs, etc.

Tips and Advice

Weight distribution is an important concept when working with support structures like bridges and buildings. Engineers use this concept to strengthen aspects of their designs.

THURSDAY

Imitation Landmark! We will utilize an artistic approach to a design challenge, exploring the concept of reverse engineering and repurpose recyclable and found materials to build an inspired creation.

Equipment and Supplies

- A variety of found or recyclable materials - multiple of the same (like a bunch of empty cans or corks) might be fun.
- Hot Glue Gun
- Scissors or other strong cutting tool
- Box of Stuff

Tips and Advice

Today's challenge will result in unique creations that will look completely different for everyone! The beauty of a design challenge like this is that there is no right or wrong way of creating. Whatever you come up with is perfect!

FRIDAY

Surprise Challenge! We will apply design thinking and engineering skills to approach an unknown challenge, and use our critical thinking and creative problem solving skills.

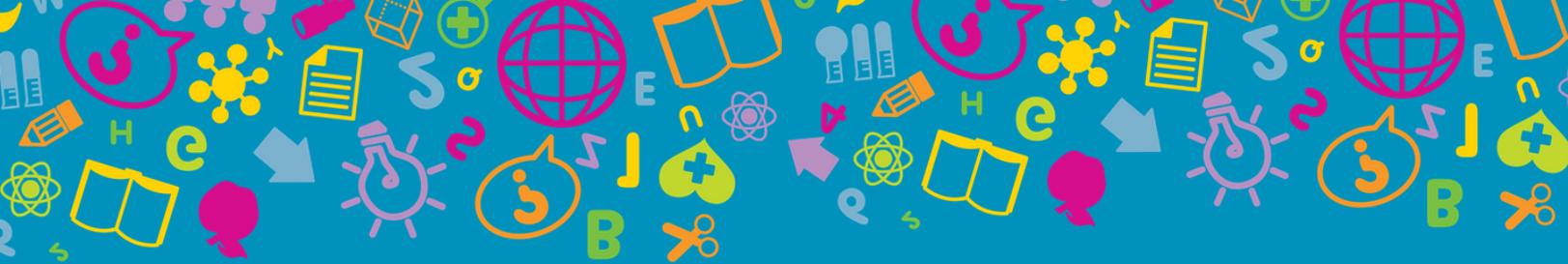
Equipment and Supplies

- Box of Stuff!

Tips and Advice

Your Box of Stuff will be your best friend for today's challenge. Who knows what we will make, build or create? Be prepared for anything!





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bennettday.org/bennettlive

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Printed in the United States of America

First Printed, 2020

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